

CLAIM AMENDMENTS

1 1. (currently amended) A cutter of a rotary pump for
2 liquids containing solid materials, the cutter having

3 a rotating blade having at least one blade opening
4 through which the liquid flows and having a convex end face
5 surrounding the blade opening;

6 a cutting edge on the blade, bounding the blade opening,
7 and flush with the convex end face; and

8 a nonrotating counter surface that [[also]] has at least
9 one flow-through opening through which the liquid flows, that
10 aligns with the blade opening on rotation of the blade, that is
11 directed toward and closely juxtaposed with the convex end face of
12 the blade, and that is complementarily concave to the end face of
13 the blade.

1 2. (previously presented) The cutter according to claim
2 1 wherein the curvature of the end face of the blade is part-
3 spherical.

1 3. (currently amended) The cutter according to claim 2
2 wherein the pump has an impeller, and an end of a radius of the
3 curvature of the end face is situated on an axis of the pump shaft
4 at the same level as a shaft bearing that is near the pump
5 impeller.

1 4. (currently amended) The cutter according to claim 1
2 wherein the pump has an impeller, and the rotating blade is
3 attached to the pump impeller at an end that is directed away from
4 the counter surface.

1 5. (currently amended) The cutter according to claim 1
2 wherein the pump has a housing, and the counter surface is formed
3 by a nonrotating element that can be fixed in or on the pump
4 housing or that is formed by the pump housing.

1 6. (previously presented) The cutter according to claim
2 1 wherein the flow-through opening narrows in a flow direction and
3 thus flares in a downstream direction.

1 7. (currently amended) The cutter according to claim 5
2 wherein the pump has a housing, and the nonrotating element is
3 mounted in an annular flange that can be attached in or on the pump
4 housing.

1 8. (currently amended) The cutter according to claim 1
2 wherein there are ~~rotating blade has~~ two to four sector-shaped
3 blade openings.

1 9. (currently amended) The cutter according to claim 1
2 wherein there ~~are nonrotating element has~~ four to six sector-shaped
3 flow-through openings.

1 10. (currently amended) The cutter according to claim 1
2 wherein there are a plurality of the blade openings ~~in the blade~~
3 ~~and in the nonrotating element and of the flow-through openings,~~
4 and the cutting edges are formed by radial webs between the blade
5 openings ~~of the blade~~.

1 11. (currently amended) The cutter according to claim
2 10, further comprising
3 an inlet tip between the flow-through openings ~~of the~~
4 ~~nonrotating element~~.

1 12. (previously presented) The cutter according to
2 claim 1 wherein the rotating blade has the function of a further
3 axial impeller due to the design of intake ports that extend at an
4 angle relative to the rotational direction.

1 13. (currently amended) A cutter of a rotary pump for
2 liquids containing solid materials, the cutter having
3 a rotating blade having at least one blade opening
4 through which the liquid flows and having a convex end face

5 surrounding the blade opening, the blade opening flaring in a flow
6 direction of the liquid through the blade opening;

7 a cutting edge on the blade, bounding the blade opening,
8 and flush with the convex end face; and

9 a nonrotating counter surface that [[also]] has at least
10 one flow-through opening through which the liquid flows, that
11 aligns with the blade opening on rotation of the blade, that is
12 directed toward and closely juxtaposed with the convex end face of
13 the blade, and that is complementarily concave to the end face of
14 the blade.